What needs to be done rather soon

PISA:

- We now have new strip geometry (without tilt) implemented by Maki Kurosawa. Need to check occupancy, dead areas, etc.

  Who: Maki Kurosawa

  When: before review (?)

- We should make sure that all material is in PISA, and that existing material is of correct radiation length.

  Who: SL, Hubert van Hecke

  When: before review (?)

What needs to be done rather soon

Charge sharing and clustering (important for standalone and global tracking):

- SL committed to cvs first version of simplified charge sharing Does sharing only in phi, not Z, does not take into account electron cloud size, Lorentz angle, etc. Can already be used for clustering development.

  We also need to add noise (random Gaussian with ~8keV sigma?) Important if cluster contains several channels.

  Who: Kenichi Nakano

  When: before review (?)

- Create a simple clustering algorithm (in phi only).

  Who: Kenichi Nakano

  When: before review (?)

What needs to be done rather soon

Tracking related issues:

- Alan found that strips in reconstruction have z-length of 1mm
  If correct 3cm is used, standalone tracking is impossible in central AuAu events.
    - 90 degree u-strips?
    - how this affects global tracking (cgl, KalFit)
    - it would be good to have charge sharing and clustering in place for final decision making.

Who: Alan Dion, SL (global tracking)

When: before review (?)

We also have to include standalone tracking into svx software, but this can wait until after the review.

What needs to be done rather soon

Tracking related issues:

- Kalman Fit study: good dca resolution with just one inner pixel layer (~46mkm for 3-5GeV particles).
  Second pixel layer improves this by ~10%, and
  adding strip layers always makes things worse.
  Strip geometry problem? Check with very high pT particles.

  Who: SL, Andrew Berstrom (ISU)

  When: (?)

Less urgent tasks

Database work – Matt Lockner (ISU)

Alignment work – Manabu Togawa

When: later this year